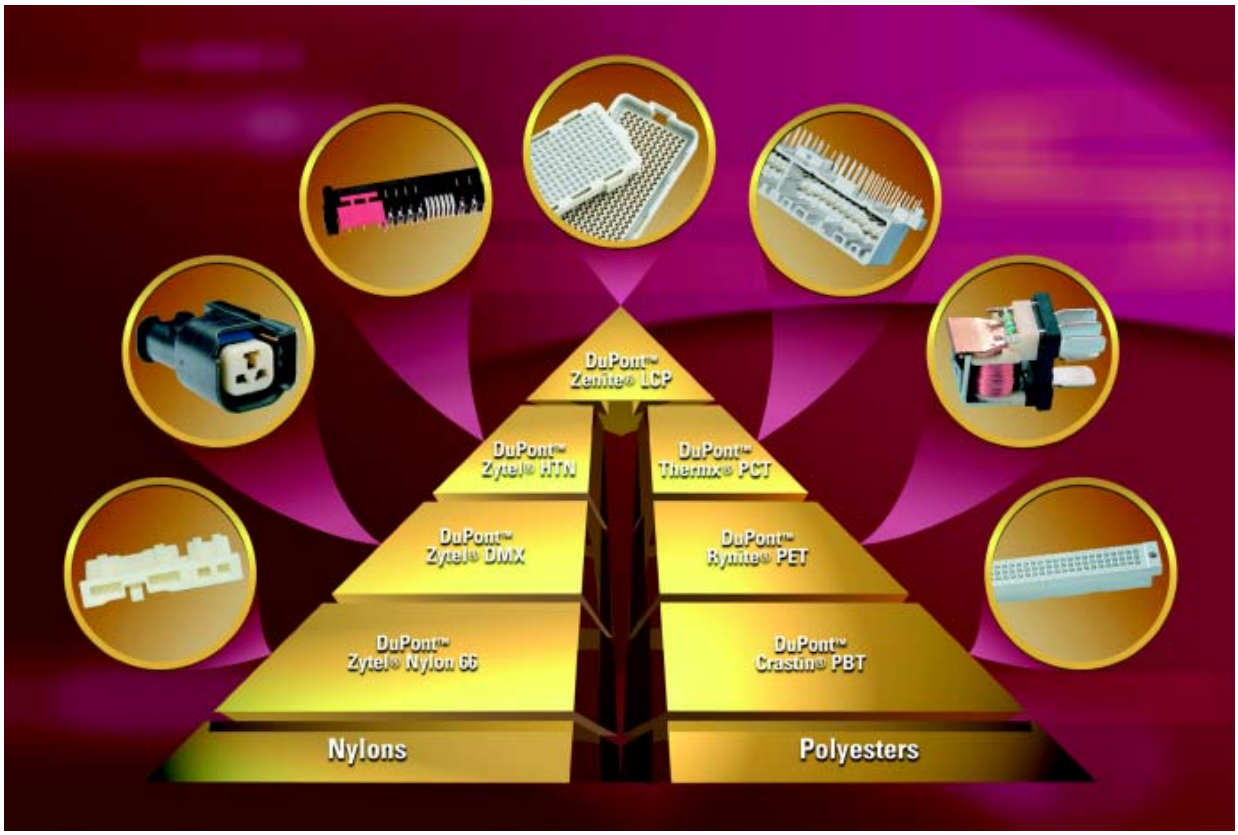
Application Profile

E/E A-03/386

DuPont High Performance Plastics

When Connectors Are the Question,

DuPont Delivers a Pyramid of Answers



The right materials

When choosing a material for a new connector, you can count on DuPont to recommend the best plastic for the job. Seven families of connector materials on our performance pyramid provide cost-effective solutions for over 90% of all connector needs.

Each family includes resins specially tailored for connectors. You'll have a wealth of choices to meet your particular needs for low warp, cycling speed, high flow, halogen-free content, knit-line strength, hydrolysis resistance and more.

Using or considering lead-free solder? We've got you covered with not one but a choice of materials that can withstand the demanding temperature-time conditions of lead-free solder assembly.

The right people

Your contacts at DuPont concentrate on connectors. They know your business. They speak your language.

The right support

Our industry specialists stand ready to assist at every stage, from design and development right through to molding.

The right place

Wherever you design and engineer your connector and wherever in the world you mold it, DuPont can deliver technical assistance and material.

The right call

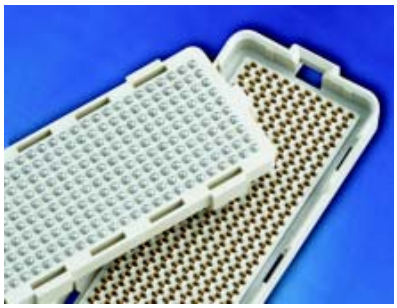
Contact your DuPont representative, call 1-800-441-0575 or visit us on the Web.

plastics.dupont.com

DUPONT®

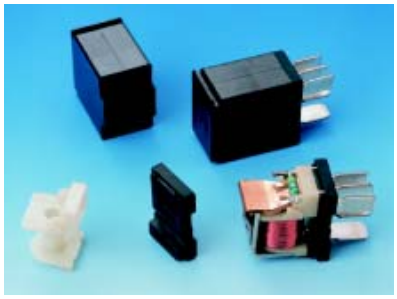
The miracles of science™

Zenite® LCP



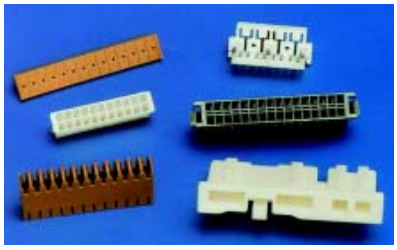
Innovative high-density connector system relies on precision molding capability, dimensional stability, high-temperature resistance and reduced thermal expansion coefficient of a special Zenite® LCP liquid crystal polymer resin. Material: Zenite® 3226L. Manufacturer: FCI, Etters, Pennsylvania, USA.

Rynite® PET



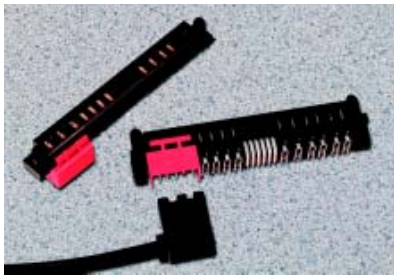
Relay for automotive electrical systems meets needs for reliability and low cost. Assembly is fully automated and requires no fasteners. Materials: Bobbin, Rynite® 530 PET thermoplastic polyester resin; base and cover, Crastin® SK605. Manufacturer: Saturn Electronics and Engineering Inc., Auburn Hills, Michigan, USA.

Zytel® Nylon 66



Flame-retardant grades of nylon 66 resins meet electrical safety requirements and flow easily to permit fast cycling and complete fill of small features. Material: FR grades of Zytel® nylon 66. Molders: Various.

Zytel® HTN



This power distribution connector relies on Zytel® HTN to meet demanding requirements. They include high-temperature resistance for solder assembly, robust mechanical properties and surface hardness to allow for press-fit pin configurations, dimensional stability and good molding productivity. Material: Zytel® HTNFR52G45BL. Manufacturer: FCI, Etters, Pennsylvania, USA.

Zytel® DMX

In a two-way connector for an automotive fuel injector, Zytel® DMX modified nylon fulfills needs for consistent mechanical properties and dimensions under varying humidity conditions. Material: Zytel® DMX65G15H. Manufacturer: Molex Corporation, Auburn Hills, Michigan, USA.

Thermx® PCT

For this connector used in an automotive power seat control module, Thermx® PCT high performance polyester provided a drop-in replacement for PBT. This allowed a shift to reflow solder assembly without building a new mold. Material: Thermx® CGT33. Manufacturer: Tyco Electronics, Greensboro, North Carolina, USA.

Crastin® PBT

In these DIN 41612 connectors, the excellent flow properties of a glass-reinforced Crastin® PBT thermoplastic polyester resin are crucial for filling intricate details with wall sections as thin as 0.012 in. (0.3 mm). Material: Crastin® SK655FR1, a UL94 V-0 resin. Manufacturer: ERNI Components, Adelberg, Germany.

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